

$^{14}\text{N}(\text{n},\alpha)$ 1972Ny02,1968Hs03,1971Sc16

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	J. H. Kelley, C. G. Sheu		NP A880, 88 (2012)	1-Jan-2011

- 1967Mo21: $^{14}\text{N}(\text{n},2\alpha)^7\text{Li}$, E=14.1 MeV, measured σ .
 1968Ba30: $^{14}\text{N}(\text{n},\alpha)$ E=14.1 MeV, measured $\sigma(E_\alpha, \theta)$.
 1968Hs03: $^{14}\text{N}(\text{n},\alpha)$ E=14.1 MeV, measured $\sigma(E_\alpha, \theta)$. Deduced reaction mechanism.
 1968Le11: $^{14}\text{N}(\text{n},\alpha)$ E=14.9 MeV, measured $\sigma(E_\alpha, \theta)$.
 1968Ma11: $^{14}\text{N}(\text{n},\alpha)$ E=14.1 MeV, measured $\sigma(E_\alpha, \theta)$.
 1971Sa31: $^{14}\text{N}(\text{n},\alpha)$ E=14.8-18.8 MeV, measured $\sigma(E, \theta)$.
 1971Sc16: $^{14}\text{N}(\text{n},2\alpha)$, E=14.1 MeV, measured σ for different intermediate states. ^{11}B deduced levels, J.
 1972Ki12: $^{14}\text{N}(\text{n},\alpha)$ E=4.9 MeV, measured $\sigma(\theta)$.
 1972Ny02: $^{14}\text{N}(\text{N},\gamma)$ E=4.2, 5.9, 6.9 MeV; measured Doppler shifts, $\sigma(E_\gamma, \theta(\gamma))$. ^{11}B deduced transitions.
 1973Bo26: $^{14}\text{N}(\text{n},\alpha)$ E=14.1 MeV, measured $\sigma(E_\alpha, \theta)$.
 1978Bu28: $^{14}\text{N}(\text{n},\alpha)$ E=12.2-18.0 MeV, measured $\sigma(E, \theta)$. DWBA analysis.
 1978Mo09: $^{14}\text{N}(\text{n},\alpha)$ E=13.9 MeV, measured $\sigma(E_\alpha, \theta)$.
 1979Mo09: $^{14}\text{N}(\text{n},\alpha)$ E=1-15 MeV, measured σ .
 2006Kh12: $^{14}\text{N}(\text{n},\alpha)$, E=5.45-7.2 MeV; measured σ .

 ^{11}B Levels

E(level)	J^π	Comments
0		
2.12×10^3		
4.44×10^3		
5.02×10^3	E(level): from (1968Hs03).	
6.74×10^3	E(level): Unresolved.	
6.79×10^3	E(level): from (1968Hs03).	
6.79×10^3	E(level): Unresolved.	
9.19×10^3	7/2	E(level): J^π : from $^{14}\text{N}(\text{n},2\alpha)$ (1971Sc16).
9.27×10^3	5/2	E(level): J^π : from $^{14}\text{N}(\text{n},2\alpha)$ (1971Sc16).
9.88×10^3		E(level): from $^{14}\text{N}(\text{n},2\alpha)$ (1971Sc16).
10.25×10^3		E(level): from $^{14}\text{N}(\text{n},2\alpha)$ (1971Sc16).
10.60×10^3		E(level): from $^{14}\text{N}(\text{n},2\alpha)$ (1971Sc16).
10.96×10^3		E(level): from $^{14}\text{N}(\text{n},2\alpha)$ (1971Sc16).
11.29×10^3		E(level): from $^{14}\text{N}(\text{n},2\alpha)$ (1971Sc16).
$11.49 \times 10^3?$		E(level): from $^{14}\text{N}(\text{n},2\alpha)$ (1971Sc16).
$11.60 \times 10^3?$		E(level): from $^{14}\text{N}(\text{n},2\alpha)$ (1971Sc16).

 $\gamma(^{11}\text{B})$

E_γ	I_γ	$E_i(\text{level})$	E_f	Comments
2118 5	100	2.12×10^3	0	E_γ : from (1972Ny02).
4.44×10^3		4.44×10^3	0	from (1972Ny02).

 $^{14}\text{N}(\text{n},\alpha)$ 1972Ny02,1968Hs03,1971Sc16Level Scheme

Intensities: Type not specified

